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VULCAN
CHEMICALS

James M. Boyd
Plant Manager

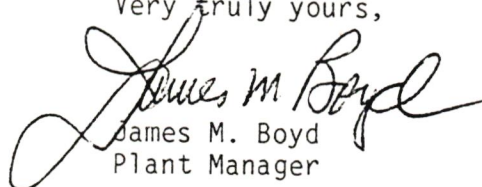
March 25, 1985

Lynn Harrington
Permits Section, RCRA Branch
EPA Region VII
726 Minnesota Avenue
Kansas City, Kansas 66101

Mr. Harrington:

Enclosed is the survey for "Releases From Solid Waste Management Unit" as requested by your letter dated March 1, 1985. If you have any questions, please contact Gary Mason at 316-524-4211, extension 338.

Very truly yours,


James M. Boyd
Plant Manager

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Enclosure

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AIR AND HAZARDOUS MATERIALS
DIVISION



R00137734
RCRA RECORDS CENTER



INFORMATION REGARDING POTENTIAL RELEASES FROM
SOLID WASTE MANAGEMENT UNITS

FACILITY NAME: Vulcan Materials Company

EPA I.D. NUMBER: KSD007482029

LOCATION City Wichita

State Kansas

1. Are there any of the following solid waste management units (existing or closed) at your facility? NOTE - DO NOT INCLUDE HAZARDOUS WASTE UNITS CURRENTLY SHOWN IN YOUR PART B APPLICATION. HOWEVER, TANKS AND/OR CONTAINERS WHICH STORE HAZARDOUS WASTES FOR LESS THAN NINETY DAYS SHOULD BE INCLUDED.

	<u>YES</u>	<u>NO</u>
◦ Landfill	<u>X</u>	<u>—</u>
◦ Surface Impoundment	<u>X</u>	<u>—</u>
◦ Land Farm	<u>—</u>	<u>X</u>
◦ Waste Pile	<u>X</u>	<u>—</u>
◦ Incinerator	<u>—</u>	<u>X</u>
◦ Storage and/or Treatment Tank (Above Ground)	<u>X</u>	<u>—</u>
◦ Storage and/or Treatment Tank (Underground)	<u>X</u>	<u>—</u>
◦ Container Storage Area	<u>—</u>	<u>X</u>
◦ Injection Wells	<u>—</u>	<u>X</u>
◦ Wastewater Treatment Units	<u>—</u>	<u>X</u>
◦ Elementary Neutralization Units	<u>X</u>	<u>—</u>
◦ Transfer Stations	<u>X</u>	<u>—</u>
◦ Waste Recycling Operations	<u>—</u>	<u>X</u>

2. If there are "Yes" answers to any of the items in Number 1 above, please provide a description of the wastes that were stored, treated or disposed of in each unit. In particular please focus on whether or not the wastes would be considered as hazardous wastes or solid wastes which contain hazardous constituents under RCRA. Also include any available data on quantities or volumes of wastes disposed of and the dates of disposal. Please also provide a description of each unit and include capacity, dimensions, location of each unit on a topographic map and a site plan if available.

Refer to Attachment 1, "Report Contents," Attachment 2, "Solid Waste Management Units Summary," and Attachment 3, "Solid Waste Management Unit Location."

NOTE: Hazardous wastes are those identified in 40 CFR 261. Hazardous constituents are those listed in Appendix VIII of 40 CFR 261.

For the units noted in Number 1 above and also those hazardous waste units in your Part B application, please describe for each unit any data available on any prior or current releases of hazardous wastes or constituents to the environment that may have occurred in the past or still be occurring and any corrective measures or response which may have been taken.

Please provide the following information:

- a. Date of release
- b. Type of waste released
- c. Quantity or volume of waste released
- d. Describe nature of release (i.e., spill, overflow, ruptured pipe or tank, volatilization or release of air-borne wastes or constituents, etc)
- e. Describe nature and extent of any corrective measures or response to a release which was taken.

Refer to Attachment 4, "Releases from Non-RCRA and RCRA Solid Waste Management Units."

4. In regard to the prior releases described in Number 3 above, please provide (for each unit) any analytical data that may be available which would describe the nature and extent of environmental contamination that exists as a result of such releases. Please focus on concentrations of hazardous wastes or constituents present in contaminated soil, groundwater, surface water or air.

Analytical data from plant releases is presented in the reports listed in Attachment 4.

Signature and Certification

As with reports in RCRA Permit Applications, submittal of this information must contain the following certification and signature by a principal executive officer of at least the level of Vice President or by a duly authorized representative of that person:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.


Signature

M. J. Ferris - Vice President
Name and Title (Typed)

ATTACHMENT 1: REPORT CONTENTS

The information contained in this survey is the most complete information available to date. This facility has been in operation since the early 1950's. Practices and incidents during the earlier years are not well documented and sometimes were not documented at all. Information pertaining to solid waste management units during these early years is very general.

The following information is being submitted as requested by Region VII EPA:

Attachment 2, "Solid Waste Management Units Summary," provides information on each unit, the type of waste handled, capacity, dates of operation, and status of the facility.

Attachment 3, "Solid Waste Management Unit Location," is a map of the Wichita facility identifying each unit.

Attachment 4, "Releases," discusses any known or suspected releases from all solid waste management units.

Releases into the environment related to the processing units are not documented in this survey. Incidents prior to CERCLA may have contributed to localized releases to the soil and groundwater. Since the installation of the Pollution Control Project in 1976-78, the environmental impact of process related spills has been minimized. (This plan is discussed in Vulcan's RCRA Part B Application.) Process areas are contained with concrete pads and dikes which drain to sumps. In addition, groundwater interceptor wells continuously operate to eliminate environmental impacts from past activities.

ATTACHMENT 2: SOLID WASTE MANAGEMENT UNITS

Solid Waste Management Unit		HW or SW	Waste Name	Hazardous Constituents	EPA #	Quantity	Facility Size	Dates of Operation	Description
Category	Facility Name								
Landfill	Vulcan Landfill	HW	Hex Waste	HCB, HCBd, HCE	K016	13,000 ton	40 acres	1951-1976	Vulcan owned and operated a landfill located adjacent to the plant site for approximately 25 years. In 1976 the facility was closed. A six foot clay cap was placed on the fill with a berm to collect runoff and prevent infiltration.
		HW	Penta Waste	Pentachlorophenol	U242	1,000 ton			
		SW	Alpha Cake	α-BHC	NA	10,000 ton			
		SW	Brine Sludge	None	NA	Unknown			
	Vulcan Construction Landfill	SW	Construction Waste	None			10 acres	1978-Present	Only noncontaminated construction and demolition waste are landfilled at this facility. The facility operates under a Kansas solid waste permit.
Surface Impoundment	Lined Pond-2 (LP-2)	HW	Cooling Water	Chromium, 0-20 ppm	D007	95,000 gals (capacity)	0.24 acres	1978-1984	LP-2 was closed during May 1984 in accordance with 40 CFR 264.112 requirements.
	Solar Pond	SW	Brine Sludge	None	NA	Unknown	1.4 acres	1951-1971	In 1976 the solar pond was excavated, stabilized with clay, and placed under the landfill cap.
	Old Hex Pit	HW	Hex Waste	HCB, HCBd, HCE C ₂ Cl ₄ , CCl ₄	K016 K016			1960-1970	Hex waste was temporarily stored in a clay lined pit prior to disposal in the landfill. When closed, the pit was excavated and buried in the landfill.
Waste Pile	Solid Waste Pad	SW	Soil Contaminated with Caustic	None	NA	1,000 yd ³	0.15 acres	1984-Present	Soil contaminated with caustic soda is temporarily stored prior to disposal.
Storage Tank (Above Ground)	Tank 437	HW	Process Wastewater	pH, 6-13	D002	300 gal/min	1.3 MMgals (Tank 437 Throughput)	1978-Present	Tank 437 is used as a surge tank in the process wastewater system prior to disposal in an injection well.
		HW	Process Wastewater	Chromium, 0-10 ppm	D007				
		HW	Interceptor Well Water	HCb, HCBd, HCE, 0.1 ppm	K016				
				C ₂ Cl ₄ , CCl ₄ , 0-10 ppm	K016				
				Chlorosolvents, 0-10 ppm	NA				
				Chlorophenols, 0-10 ppm	NA				
				α, γ, β-BHC, 0-.1 ppm	NA				

Solid Waste Management Unit		HW or SW	Waste Name	Hazardous Constituents	EPA #	Quantity	Facility Size	Dates of Operation	Description
Category	Facility Name								
Storage Tank (Below Ground)	Sump 417	SW	Sump Cleanouts	Chlorosolvents, trace HCB, HCBd, HCE, trace Chlorophenols, trace	NA	60 yd ³ /yr	180 yd ³	1978-Present	When sumps are cleaned, this material is placed into Sump 417 or Sump 438 for temporary storage.
	Sump 438	SW	Sump Cleanouts	Chlorosolvents, trace HCB, HCBd, HCE, trace Chlorophenols, trace	NA	110 yd ³ /yr	340 yd ³	1978-Present	When sumps are cleaned, this material is placed into Sump 417 or Sump 438 for temporary storage.
Elementary Neutralization	Tank 416	HW	Process Wastewater	pH, .5-13	D002	300 gal/min	20,000 gals (Tank 416 Throughput)	1978-Present	Tank 416 is used as a surge tank in the process wastewater system prior to disposal in an injection well.
		HW	Process Wastewater	Chromium, 0-10 ppm	D007				
		SW	Process Wastewater	Chlorosolvents, 0-10 ppm	NA				
		SW	Process Wastewater	HCB, HCBd, HCE, 0-1 ppm	NA				
Transfer Station	CM1, CM11, Perc Drum Storage	SW	Drying Agents	Chlorosolvents, 0-1000 ppm	NA	65 ton/yr	400 ft ² (each area)	1976-Present	Satellite storage area for drums prior to moving them to the permitted hazardous waste storage area.
	Penta Drum Storage	HW	Penta Waste	Pentachlorophenol, 10-90%	U242	30 ton/yr	400 ft ²	1976-Present	Satellite storage area for drums prior to moving them to the permitted hazardous waste storage area.
	Caustic Plant Drum Storage	SW	Caustic Soda Bags	None	NA	3.6 ton/yr	400 ft ²	1976-Present	Satellite storage area for drums prior to moving them to the permitted hazardous waste storage area.

ATTACHMENT 4: RELEASES

Non-RCRA Solid Waste Management Units

Vulcan Landfill - Vulcan's landfill was in operation approximately 25 years. As part of a plantwide pollution control project, the landfill was encapsulated. Releases into soils and groundwater did occur as a result of this facility's operations. Reports which document this release and the resulting corrective actions have previously been submitted to EPA Region VII. The following is a list of the reports:

1. Waste Management Control Plan for the Wichita Plant
Wilson & Company
1976
2. Groundwater Survey Preliminary Report
Wilson & Company
1977
3. Wichita Plant Groundwater Study
D. N. Harrison
March 1978
4. Evaluation of Groundwater Management Plan
G. R. Meyer & J. E. Coon
November 1980
5. Annual Groundwater Report for 1981
G. R. Meyer
February 1982
6. Annual Groundwater Report for 1982
G. T. Mason
February 1983

On August 16, 1983 three reports were submitted as confidential information to Robert Morby of EPA Region VII.

Vulcan Construction Landfill - There have been no known releases from this facility.

Lined Pond #2 - LP-2 was used as a surface impoundment for temporary storage of cooling tower blowdown. During closure of this facility holes in the pond liner were identified. These holes verified a release into the subsurface soils. The soils were excavated in accordance to the EPA approved RCRA closure plan. Details of the closure are outlined in a letter submitted to EPA Region VII on November 20, 1984.

Solar Pond - The solar pond was a clay lined pond that received brine sludge (CaCO_3 , $\text{Mg}(\text{OH})_2$) between 1951-1971. In 1976 the contents of the pond were removed and placed in the landfill. A clay cap was placed on top of the area. Releases into the soil and groundwater were possible from this source. Vulcan's current groundwater management program should prevent any migration of contaminated waters from the plant site. Additional information on Vulcan's groundwater plan is documented in the Vulcan reports submitted on August 16, 1983.

Old Hex Pit - The old hex pit was a clay lined pit used for temporary storage of hexachlorinated waste. The waste was routinely removed from the pit and placed in the on-site landfill. Use of the pit was discontinued in the early 1970's. All materials were excavated and buried in the landfill. The area was filled with clay and is now covered with a concrete pad.

Releases into the soil and groundwater were possible from this unit. The date or extent of any release cannot be qualified or quantified. The current groundwater management program is the corrective action used to assure no migration of any contaminated groundwater. Details of this program are documented in reference reports on Vulcan's landfill.

Solid Waste Pad - There have been no known releases from this facility. All runoff from this pile is contained in the process wastewater system.

Tank 437 - There are no known releases from this facility.

Sump 417 - There are no known releases from this facility. Routine inspections verify the integrity of the sump.

Sump 438 - There are no known releases from this facility. Routine inspections verify the integrity of the sump.

Tank 416 - There have been no known releases from this facility.

CMI, CMII, and Perc Drum Storage - There have been no known releases from these facilities.

Penta Drum Storage - There have been no known releases from this facility.

RCRA Part B Solid Waste Management Units

Drum Storage Area - There have been no known releases from this facility.

Injection Wells - There have been no known releases from these facilities.

Hex Incinerator - There have been no known releases into the environment. Localized spillage around the processing unit has been contained in a process containment area where it is then recovered. Details are discussed in the RCRA Part B Application.